

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P#

Luminaire Tested: **LD4C55D010 EX4C559030 4LBPSSQMW**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C55D010 EX4C559030 4LBPSSQMW  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

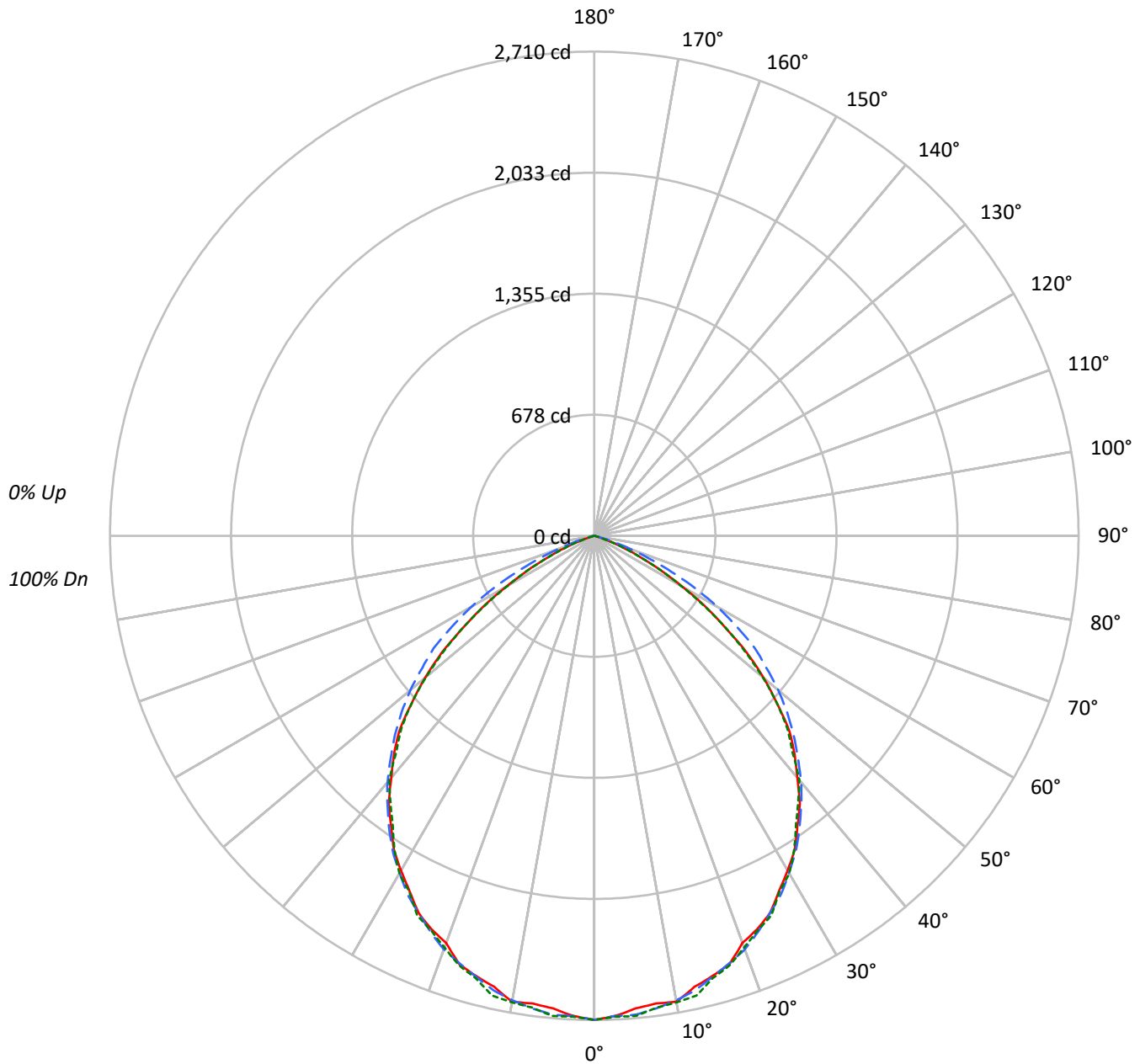
Lumens per Lamp: N/A  
Luminaire Lumens: 5788.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559030 4LBPSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P#

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |
| 2   | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 69  | 67  |    |    |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 31  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 261437 | 261437 | 261437 |
| 5°  | 257224 | 260566 | 261312 |
| 10° | 259444 | 258690 | 259816 |
| 15° | 254896 | 255276 | 256045 |
| 20° | 248971 | 252925 | 251744 |
| 25° | 247890 | 247890 | 249530 |
| 30° | 240981 | 242697 | 243132 |
| 35° | 233462 | 235736 | 231648 |
| 40° | 222516 | 226862 | 224922 |
| 45° | 210592 | 215327 | 208491 |
| 50° | 185461 | 201628 | 184305 |
| 55° | 150207 | 184524 | 150863 |
| 60° | 109901 | 152993 | 107701 |
| 65° | 66781  | 108951 | 65023  |
| 70° | 26039  | 58652  | 24995  |
| 75° | 2871   | 15807  | 2871   |
| 80° | 2167   | 2167   | 2167   |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 255.8  | 4.4       |
| 10°-20°   | 723.7  | 12.5      |
| 20°-30°   | 1073.8 | 18.6      |
| 30°-40°   | 1244.3 | 21.5      |
| 40°-50°   | 1193.0 | 20.6      |
| 50°-60°   | 877.2  | 15.2      |
| 60°-70°   | 378.8  | 6.5       |
| 70°-80°   | 40.9   | 0.7       |
| 80°-90°   | 0.5    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2053.3 | 35.5      |
| 0°-40°    | 3297.6 | 57.0      |
| 0°-60°    | 5367.7 | 92.7      |
| 0°-90°    | 5788.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5788.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2710 | 2710  | 2710 | 2710  | 2710 |      |
| 5°  | 2656 | 2682  | 2690 | 2694  | 2698 | 253  |
| 15° | 2552 | 2567  | 2556 | 2559  | 2563 | 719  |
| 25° | 2328 | 2325  | 2328 | 2332  | 2344 | 1066 |
| 35° | 1982 | 1994  | 2001 | 1997  | 1967 | 1239 |
| 45° | 1543 | 1547  | 1578 | 1555  | 1528 | 1173 |
| 55° | 893  | 985   | 1097 | 981   | 897  | 804  |
| 65° | 292  | 366   | 477  | 362   | 285  | 301  |
| 75° | 8    | 12    | 42   | 8     | 8    | 24   |
| 85° | 0    | 0     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559030 4LBPSSQMW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 |
| 2.5°  | 2690.2 | 2721.0 | 2724.9 | 2705.6 | 2697.9 | 2686.5 | 2713.3 | 2694.2 | 2701.8 | 2694.2 | 2690.2 |
| 5°    | 2655.7 | 2690.2 | 2694.2 | 2694.2 | 2686.5 | 2682.5 | 2694.2 | 2690.2 | 2686.5 | 2678.8 | 2690.2 |
| 7.5°  | 2640.3 | 2659.5 | 2678.8 | 2655.7 | 2667.1 | 2663.4 | 2690.2 | 2678.8 | 2674.8 | 2674.8 | 2667.1 |
| 10°   | 2648.0 | 2644.1 | 2659.5 | 2636.4 | 2644.1 | 2636.4 | 2659.5 | 2659.5 | 2651.8 | 2644.1 | 2640.3 |
| 12.5° | 2586.3 | 2617.1 | 2617.1 | 2613.3 | 2605.6 | 2594.0 | 2617.1 | 2632.6 | 2609.4 | 2609.4 | 2605.6 |
| 15°   | 2551.7 | 2559.4 | 2563.2 | 2563.2 | 2559.4 | 2567.1 | 2578.6 | 2563.2 | 2567.1 | 2547.8 | 2555.5 |
| 17.5° | 2513.3 | 2497.9 | 2509.3 | 2501.6 | 2505.6 | 2513.3 | 2528.6 | 2528.6 | 2505.6 | 2501.6 | 2509.3 |
| 20°   | 2424.7 | 2470.9 | 2474.8 | 2451.7 | 2455.5 | 2455.5 | 2482.5 | 2459.4 | 2474.8 | 2455.5 | 2463.2 |
| 22.5° | 2382.3 | 2413.1 | 2417.0 | 2386.2 | 2405.4 | 2382.3 | 2409.3 | 2374.6 | 2413.1 | 2386.2 | 2397.7 |
| 25°   | 2328.4 | 2324.7 | 2336.1 | 2320.7 | 2324.7 | 2324.7 | 2343.8 | 2328.4 | 2340.1 | 2324.7 | 2328.4 |
| 27.5° | 2240.0 | 2270.8 | 2266.9 | 2251.5 | 2259.2 | 2255.4 | 2293.9 | 2251.5 | 2274.6 | 2255.4 | 2263.1 |
| 30°   | 2162.9 | 2189.9 | 2182.2 | 2166.8 | 2166.8 | 2155.2 | 2197.6 | 2186.0 | 2182.2 | 2182.2 | 2178.3 |
| 32.5° | 2086.0 | 2089.9 | 2082.2 | 2086.0 | 2089.9 | 2074.5 | 2109.1 | 2093.7 | 2089.9 | 2093.7 | 2097.6 |
| 35°   | 1982.0 | 1982.0 | 1989.7 | 1978.3 | 1993.6 | 1993.6 | 2024.4 | 2005.1 | 2001.3 | 1989.7 | 2001.3 |
| 37.5° | 1889.7 | 1878.2 | 1882.0 | 1882.0 | 1889.7 | 1897.4 | 1912.8 | 1905.1 | 1905.1 | 1893.6 | 1901.3 |
| 40°   | 1766.6 | 1758.9 | 1770.4 | 1770.4 | 1782.0 | 1782.0 | 1797.4 | 1789.7 | 1801.1 | 1801.1 | 1801.1 |
| 42.5° | 1658.9 | 1658.9 | 1651.2 | 1662.6 | 1666.6 | 1662.6 | 1689.6 | 1685.7 | 1689.6 | 1681.9 | 1685.7 |
| 45°   | 1543.3 | 1543.3 | 1535.6 | 1531.8 | 1551.0 | 1547.2 | 1578.0 | 1566.4 | 1581.8 | 1574.1 | 1578.0 |
| 47.5° | 1385.5 | 1404.8 | 1393.2 | 1404.8 | 1427.9 | 1431.8 | 1451.0 | 1443.3 | 1458.6 | 1447.2 | 1462.6 |
| 50°   | 1235.5 | 1235.5 | 1247.0 | 1262.4 | 1285.4 | 1289.4 | 1312.5 | 1327.8 | 1335.5 | 1339.3 | 1343.2 |
| 52.5° | 1077.7 | 1073.8 | 1085.4 | 1104.5 | 1123.9 | 1139.2 | 1162.3 | 1185.4 | 1200.8 | 1223.9 | 1212.3 |
| 55°   | 892.9  | 900.6  | 912.2  | 935.3  | 966.0  | 985.2  | 1004.5 | 1035.3 | 1062.3 | 1073.8 | 1096.9 |
| 57.5° | 735.1  | 727.4  | 735.1  | 765.8  | 800.5  | 815.9  | 842.9  | 873.7  | 912.2  | 935.3  | 943.0  |
| 60°   | 569.5  | 573.5  | 581.2  | 608.2  | 635.0  | 658.1  | 669.7  | 719.7  | 754.4  | 777.5  | 792.8  |
| 62.5° | 419.6  | 427.3  | 435.0  | 458.1  | 484.9  | 504.2  | 523.4  | 565.8  | 596.6  | 619.6  | 635.0  |
| 65°   | 292.5  | 296.3  | 307.9  | 319.4  | 346.4  | 365.6  | 381.0  | 415.7  | 446.4  | 465.7  | 477.2  |
| 67.5° | 180.9  | 184.7  | 192.4  | 207.9  | 227.1  | 242.5  | 257.8  | 280.9  | 307.9  | 327.1  | 331.0  |
| 70°   | 92.3   | 96.3   | 100.0  | 111.6  | 127.0  | 134.7  | 146.2  | 165.5  | 184.7  | 200.1  | 207.9  |
| 72.5° | 30.8   | 30.8   | 34.7   | 42.4   | 50.1   | 57.8   | 61.6   | 80.9   | 96.3   | 104.0  | 107.7  |
| 75°   | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 11.6   | 11.6   | 23.1   | 30.8   | 38.5   | 42.4   |
| 77.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 7.7    | 7.7    |
| 80°   | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 | 2709.5 |
| 2.5°  | 2709.5 | 2701.8 | 2697.9 | 2701.8 | 2701.8 | 2697.9 | 2709.5 | 2724.9 | 2744.1 | 2694.2 |
| 5°    | 2705.6 | 2697.9 | 2705.6 | 2682.5 | 2694.2 | 2686.5 | 2701.8 | 2697.9 | 2713.3 | 2697.9 |
| 7.5°  | 2694.2 | 2678.8 | 2682.5 | 2671.1 | 2686.5 | 2667.1 | 2678.8 | 2701.8 | 2686.5 | 2663.4 |
| 10°   | 2655.7 | 2648.0 | 2674.8 | 2636.4 | 2628.7 | 2644.1 | 2674.8 | 2651.8 | 2644.1 | 2651.8 |
| 12.5° | 2617.1 | 2617.1 | 2628.7 | 2597.9 | 2601.7 | 2609.4 | 2624.8 | 2609.4 | 2617.1 | 2636.4 |
| 15°   | 2574.8 | 2567.1 | 2586.3 | 2563.2 | 2559.4 | 2551.7 | 2567.1 | 2567.1 | 2574.8 | 2563.2 |
| 17.5° | 2524.7 | 2513.3 | 2513.3 | 2505.6 | 2501.6 | 2520.9 | 2528.6 | 2532.4 | 2536.3 | 2520.9 |
| 20°   | 2463.2 | 2459.4 | 2470.9 | 2459.4 | 2463.2 | 2467.1 | 2467.1 | 2459.4 | 2493.9 | 2451.7 |
| 22.5° | 2397.7 | 2409.3 | 2393.9 | 2386.2 | 2393.9 | 2401.6 | 2401.6 | 2405.4 | 2397.7 | 2390.0 |
| 25°   | 2332.4 | 2340.1 | 2343.8 | 2320.7 | 2332.4 | 2320.7 | 2347.7 | 2351.5 | 2336.1 | 2343.8 |
| 27.5° | 2274.6 | 2263.1 | 2259.2 | 2243.8 | 2251.5 | 2247.7 | 2251.5 | 2251.5 | 2274.6 | 2243.8 |
| 30°   | 2186.0 | 2174.5 | 2178.3 | 2166.8 | 2170.6 | 2166.8 | 2170.6 | 2170.6 | 2186.0 | 2182.2 |
| 32.5° | 2101.4 | 2089.9 | 2093.7 | 2082.2 | 2082.2 | 2086.0 | 2078.3 | 2078.3 | 2089.9 | 2082.2 |
| 35°   | 2020.5 | 1993.6 | 1997.4 | 1993.6 | 1997.4 | 1982.0 | 1982.0 | 1978.3 | 1986.0 | 1966.6 |
| 37.5° | 1905.1 | 1893.6 | 1889.7 | 1885.9 | 1889.7 | 1882.0 | 1889.7 | 1878.2 | 1889.7 | 1874.3 |
| 40°   | 1801.1 | 1793.4 | 1797.4 | 1774.3 | 1774.3 | 1778.0 | 1770.4 | 1766.6 | 1770.4 | 1785.7 |
| 42.5° | 1697.3 | 1681.9 | 1674.2 | 1666.6 | 1670.3 | 1658.9 | 1654.9 | 1647.2 | 1654.9 | 1639.5 |
| 45°   | 1574.1 | 1574.1 | 1570.3 | 1551.0 | 1554.9 | 1554.9 | 1539.5 | 1524.1 | 1527.9 | 1527.9 |
| 47.5° | 1462.6 | 1454.9 | 1451.0 | 1431.8 | 1427.9 | 1424.1 | 1408.6 | 1397.1 | 1397.1 | 1385.5 |
| 50°   | 1339.3 | 1331.6 | 1320.1 | 1300.8 | 1293.1 | 1270.1 | 1258.6 | 1243.2 | 1227.8 | 1227.8 |
| 52.5° | 1223.9 | 1196.9 | 1181.5 | 1150.7 | 1139.2 | 1127.6 | 1096.9 | 1085.4 | 1073.8 | 1062.3 |
| 55°   | 1085.4 | 1062.3 | 1031.5 | 996.8  | 981.4  | 962.1  | 931.3  | 908.3  | 892.9  | 896.8  |
| 57.5° | 950.7  | 912.2  | 881.4  | 835.2  | 815.9  | 804.3  | 773.5  | 742.8  | 727.4  | 727.4  |
| 60°   | 785.1  | 754.4  | 715.9  | 673.5  | 658.1  | 639.0  | 600.3  | 581.2  | 569.5  | 558.1  |
| 62.5° | 627.3  | 604.2  | 569.5  | 515.7  | 504.2  | 484.9  | 458.1  | 435.0  | 423.4  | 423.4  |
| 65°   | 469.5  | 446.4  | 415.7  | 377.2  | 361.8  | 346.4  | 323.3  | 300.2  | 288.6  | 284.8  |
| 67.5° | 331.0  | 304.0  | 277.2  | 246.4  | 234.8  | 227.1  | 204.0  | 188.6  | 180.9  | 177.0  |
| 70°   | 200.1  | 184.7  | 165.5  | 142.4  | 130.8  | 123.1  | 107.7  | 96.3   | 92.3   | 88.6   |
| 72.5° | 104.0  | 92.3   | 76.9   | 61.6   | 53.9   | 46.2   | 38.5   | 30.8   | 27.0   | 27.0   |
| 75°   | 38.5   | 30.8   | 19.3   | 11.6   | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    |
| 77.5° | 7.7    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 80°   | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - 90°-270°









(END OF REPORT)